

I Claim:

1. A method for recording and manipulating an audio signal comprising steps of:  
receiving a list of audio segments;  
receiving a broadcast data signal, the broadcast data signal including an encoded audio signal;  
decoding the audio signal from the broadcast data signal;  
determining whether meta-data in the audio signal matches an entry within the list of audio segments;  
automatically recoding the audio signal;  
determining whether an audio manipulation signal is received;  
automatically identifying at least one segment of the audio signal responsive to the audio manipulation signal;  
reading the at least one segment of the audio signal;  
manipulating the at least one segment of the audio signal responsive to receipt of the audio manipulation signal; and  
outputting the manipulated audio signal.
2. A method for allowing a user to manipulate an audio signal, the method comprising steps of:  
receiving a broadcast data signal, the broadcast data signal including an encoded audio signal;  
decoding the audio signal from the broadcast data signal;  
storing the audio signal;  
determining whether an audio manipulation signal is received;  
automatically identifying at least one segment of the audio signal responsive to the audio manipulation signal;  
reading the at least one segment of the audio signal;  
manipulating the at least one segment of the audio signal responsive to receipt of the audio manipulation signal; and

outputting the manipulated audio signal.

3. The method of claim 2, further comprising a step of encoding the audio signal prior to the step of storing.

4. The method of claim 2, wherein the manipulated audio output signal is outputted in a linear manner.

5. The method of claim 2, wherein the manipulated audio output signal is outputted in a non-linear manner.

6. The method of claim 2, wherein the audio manipulation signal is representative of a request to identify a type of meta-data in the audio signal.

7. A system for manipulating an audio signal comprises:

a receiver configured to receive a broadcast data signal, the broadcast data signal including an encoded audio signal;

a decoder configured to decode the audio signal from the broadcast data signal;

a storage device configured to store the audio signal;

a user interface configured to receive an audio manipulation signal from a user;

a controller configured to control the receiver, the decoder, and the storage device;

a processor configured to manipulate at least one segment of the audio signal in response to the audio manipulation signal; and

an output device configured to output the manipulated audio signal.

8. The system of claim 7, wherein the storage device is configured to store the audio signal in a non-linear manner.

9. The system of claim 7, wherein the user interface is remotely operated.

10. The system of claim 7, wherein the controller is one of: a microprocessor controlled hardware, a software controlled hardware, and a combination of a microprocessor controlled hardware and a software controlled hardware.

11. The system of claim 7, wherein the receiver comprises one of: a radio frequency tunable device, a tunable optical device, and a digital network interface device.

12. The system of claim 7, wherein the decoder is configured to decode the audio signal.

13. The system of claim 7, wherein the decoder is configured to decompress the audio signal.

14. The system of claim 7, wherein the storage device is configured to store meta-data associated with one of: the stored audio signal, a segment of the recoded audio signal, and a segment of the unstored audio signal.

15. The system of claim 14, wherein the meta-data is configured to be edited.

16. The system of claim 7, wherein the storage device is configured to provide simultaneous writing of the audio signal and reading of the audio signal.

17. The system of claim 7, wherein the processor is configured to read multiple audio signals from the storage device simultaneously.

18. The system of claim 7, wherein the processor is configured to read the audio signal from the storage device in a non-linear manner.

19. The system of claim 7, wherein the processor is configured to directly receive the audio signal from the decoder.

20. An apparatus for processing a broadcast audio signal comprises:

a receiver configured to receive a broadcast audio signal;  
 a controller configured to pass the broadcast audio signal in both a linear and non-linear manner;  
 a storage device configured to store the broadcast audio signal;  
 a processor configured to manipulate at least one segment of the broadcast audio signal in response to an audio manipulation signal; and  
 an output connector configured to output the manipulated audio signal.

21. An apparatus for processing an audio signal comprises:

a demodulator configured to demodulate a broadcast data signal;  
 a decoder configured to decode an audio signal from the broadcast data signal;  
 a storage device configured to store the audio signal;  
 a modulator configured to modulate the audio signal;  
 a controller configured to control the decoder, the storage device, and the modulator;  
 a processor, coupled to the controller, configured to manipulate the audio signal;  
 a memory configured to store computer-readable instructions to operate the processor;  
 a user interface configured to receive an audio manipulation signal; and  
 an output connector configured to output the audio signal.

22. The apparatus of claim 21, wherein the controller is configured to control the demodulator.

23. The apparatus of claim 21, wherein the controller is configured to control the decoder, the storage device, and the modulator remotely.

24. A method for recording an audio segment comprising steps of:

receiving a list of audio segments;  
 automatically searching a broadcast source;  
 determining whether an audio segment in the broadcast source matches an entry within the list of audio segments; and

automatically recording the audio segment.

25. The method of claim 24, further comprising a step of receiving a priority criteria.
26. The method of claim 25, further comprising steps of:  
determining whether the audio segment is new; and  
determining whether the audio segment has a higher priority responsive to determining that the audio segment is not new.
27. The method of claim 26, further comprising steps of:  
determining whether all audio segments within the list of audio segments have been recorded; and  
determining whether a highest priority for each audio segment within the list of audio segments has been obtained.
28. The method of claim 27, further comprising a step of receiving a signal representative of a request to manipulate the priority criteria.
29. The method of claim 24, further comprising a step of determining whether the audio segment is new.
30. The method of claim 29, further comprising a step of overwriting a recorded audio segment with the audio segment responsive to determining that the audio segment is not new.
31. The method of claim 24, further comprising a step of determining whether all audio segments within the list of audio segments have been recorded.
32. The method of claim 24, further comprising a step of receiving a signal representative of a request to manipulate the list of audio segments.

33. The method of claim 32, wherein the signal is representative of a request to manipulate the list of audio segments in one of: deleting an entry, adding an entry, and modifying an existing entry.

34. The method of claim 24, further comprising a step of automatically recording a second audio segment.

35. The method of claim 34, further comprising a step of storing the recorded audio segments in a predefined manner.

36. A system for recording an audio segment comprises:

- a receiver configured to receive a broadcast signal, the broadcast signal including an encoded audio signal;

- a decoder configured to decode the audio signal from the broadcast signal;

- a storage device configured to store an audio segment of the audio signal;

- a user interface configured to receive a list of audio segments from a user;

- a controller configured to control the receiver, the decoder, and the storage device;

- a processor, coupled to the controller, configured to automatically search the audio signal for the audio segment and to determine whether the audio segment matches an entry within the list of audio segments; and

- an output device configured to output the audio segment.

37. The system of claim 36, wherein the receiver is configured to receive broadcast signals from a plurality of broadcast sources.

38. The system of claim 36, wherein the storage device is configured to store the audio segment responsive to a predetermined order.

39. The system of claim 36, wherein the user interface is remotely operated.

40. The system of claim 39, wherein the user interface is remotely operated by a cellular telephone.

41. A method for recording an audio segment comprising steps of:  
automatically recording a current audio segment from a broadcast source;  
determining whether the current audio segment matches an entry within a list of audio segments; and  
automatically recording the entire current audio segment upon determining that the current audio segment matches, or, in the alternative, automatically stopping the recordation of the current audio segment upon determining that the current audio segment does not match.

42. The method of claim 41, further comprising a step of receiving a priority criteria

43. The method of claim 41, further comprising a step of determining whether all audio segments within the list of audio segments have been recorded.

44. The method of claim 41, further comprising a step of receiving a signal representative of a request to manipulate the list of audio segments.